

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

11/19/10

Brendan Cox
Assistant District Attorney, Suffolk County

Dear ADA Cox,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]
Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Khan, and Kate Corbett.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

I, Annie Khan (Dookhan), was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Khan".

Annie Khan (Dookhan)
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631
Annie.Khan@state.ma.us

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry

Experience:

2003 – present

Chemist II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, January 2004.
- *Responsible for the identification of drugs to determine violations of harmful and narcotic drug laws.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Maintenance and repairs of analytical instruments.
- *Maintain the Quality Control of analytical instruments and controls/standards.
- * Maintain the Quality Control/Quality Assurance program for the drug lab.
- *Notary Public
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the Massachusetts Biologic Laboratory, Quality Control and Quality Assurance Department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs).
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Method Development for creating new techniques for the QC Department.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept of Justice – Forensics Professionals

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with Massachusetts Biologic Laboratory and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Kate A. Corbett

Education

Bachelor of Science Degree, CHEMISTRY May 2003

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Employment

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005

Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 – August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

No. [REDACTED]
City: Boston D.C.U. Police Dept.
Officer: P.O. KEITH BUTLER
Def: [REDACTED]

Date Analyzed: 9/27/10

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 07/02/2010

No. Analyzed:

Gross Wt.: 1.78

Net Weight: 0.28

Tests: BASO
26AT

Prelim: cocaine (10)

Findings: Cocaine

DRUG POWDER ANALYSIS FORM

SAMPLE # AGENCY Boston ANALYST QA-SP

No. of samples tested:

Evidence Wt. ✓

PHYSICAL DESCRIPTION:

off white chunky substance
in 1 pb

Gross Wt (): 0.3641

Gross Wt ():

Pkg. Wt:

Net Wt: 0.2811

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate (-) +

Marquis -

Froehde's -

Mecke's -

Microcrystalline Tests

Gold
Chloride +

TLTA (-) +

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 09-24-10

GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS
OPERATOR KAC

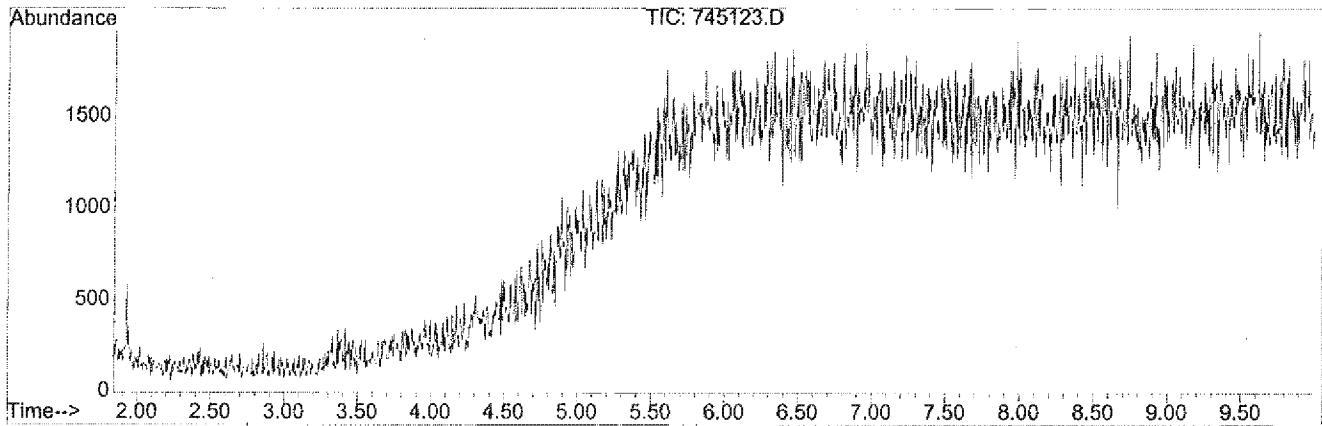
DATE 9-27-10

Area Percent / Library Search Report

✓KAC
11/5/10

Information from Data File:

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 Operator : KAC
 Date Acquired : 24 Sep 2010 20:02
 Sample Name : BLANK
 Submitted by :
 Vial Number : 1
 AcquisitionMeth: DRUGS
 Integrator : RTE



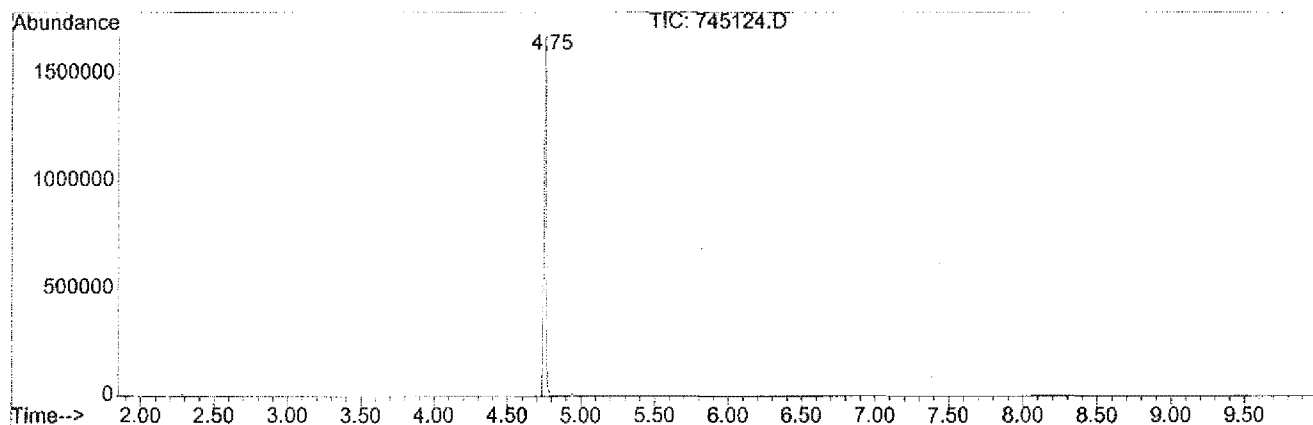
| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : G:\09_24_10\745124.D
 Operator : KAC
 Date Acquired : 24 Sep 2010 20:15
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 24
 AcquisitionMeth: DRUGS
 Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.754 | 1731697 | 100.00 | 100.00 |

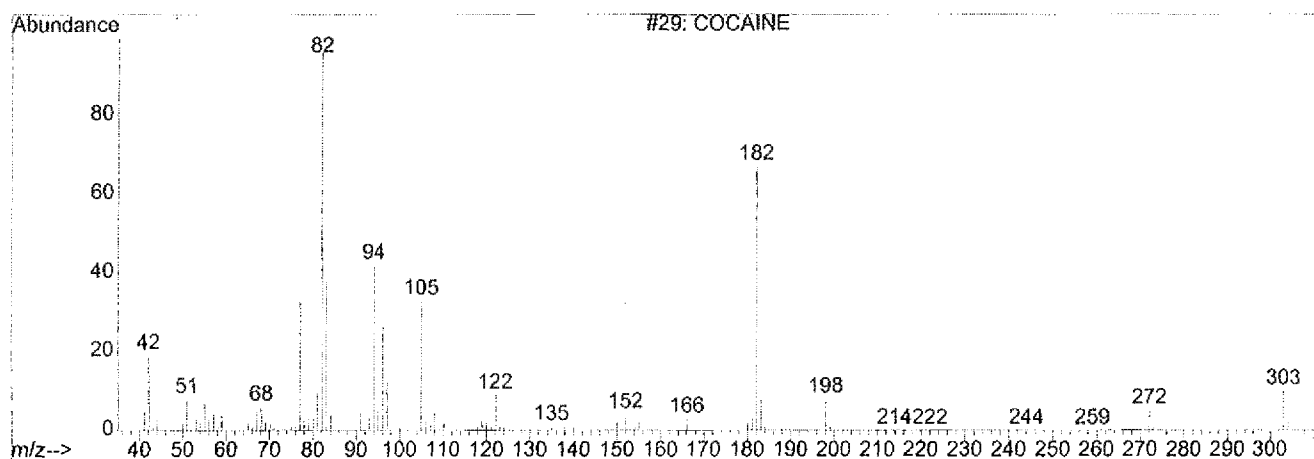
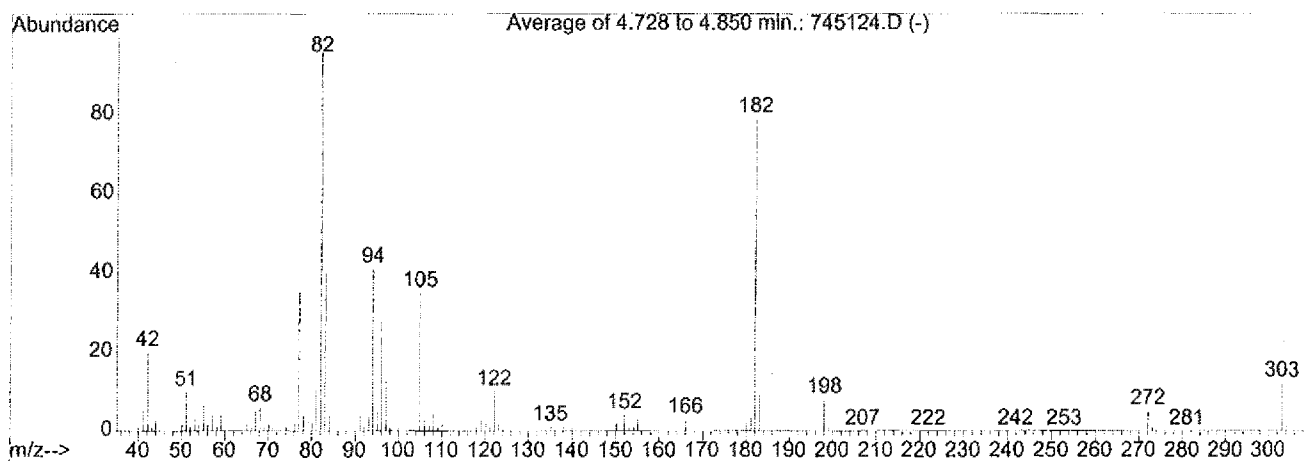
Area Percent / Library Search Report

Information from Data File:

File Name : G:\09_24_10\745124.D
 Operator : KAC
 Date Acquired : 24 Sep 2010 20:15
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 24
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

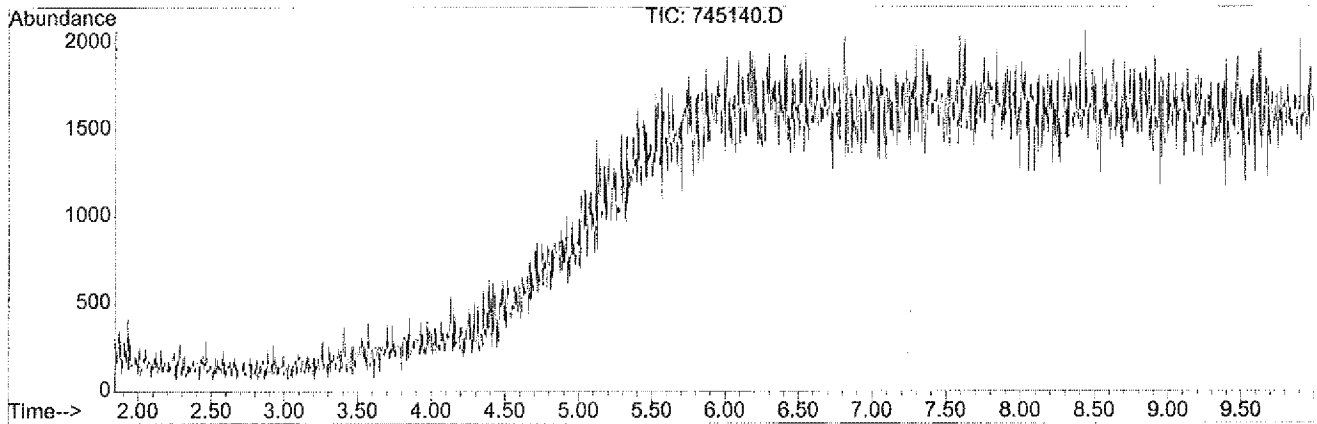
| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|------------------------------|-------------|------|
| 1 | 4.75 | C:\DATABASE\SLI.L COCAINE | 000050-36-2 | 99 |



Area Percent / Library Search Report

Information from Data File:

File Name : G:\09_24_10\745140.D
Operator : KAC
Date Acquired : 24 Sep 2010 23:54
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



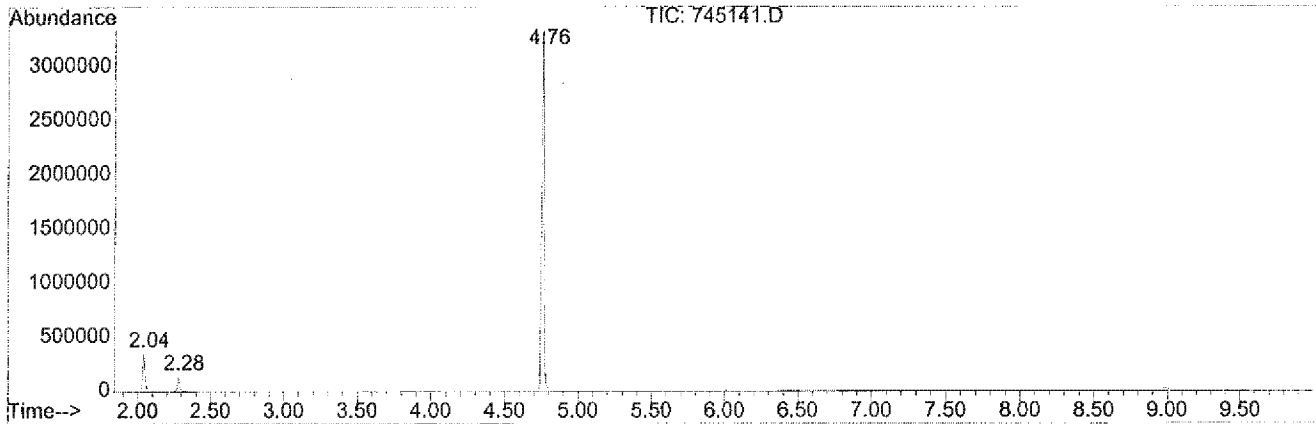
| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : G:\09_24_10\745141.D
 Operator : KAC
 Date Acquired : 25 Sep 2010 00:08
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 41
 AcquisitionMeth: DRUGS
 Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|---------|--------|---------|
| 2.039 | 421496 | 9.61 | 11.09 |
| 2.277 | 162743 | 3.71 | 4.28 |
| 4.757 | 3802390 | 86.68 | 100.00 |

Area Percent / Library Search Report

Information from Data File:

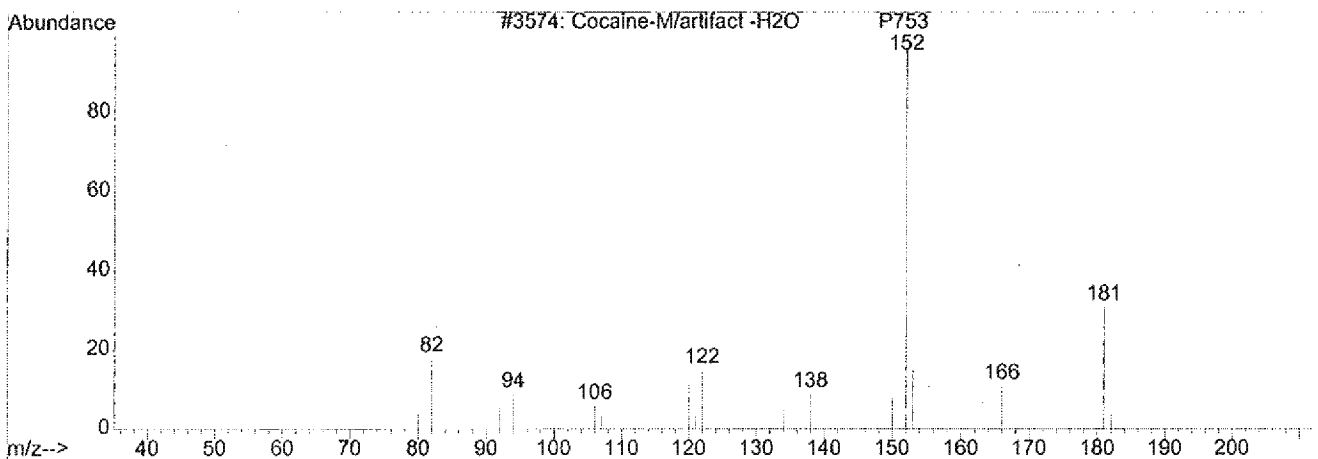
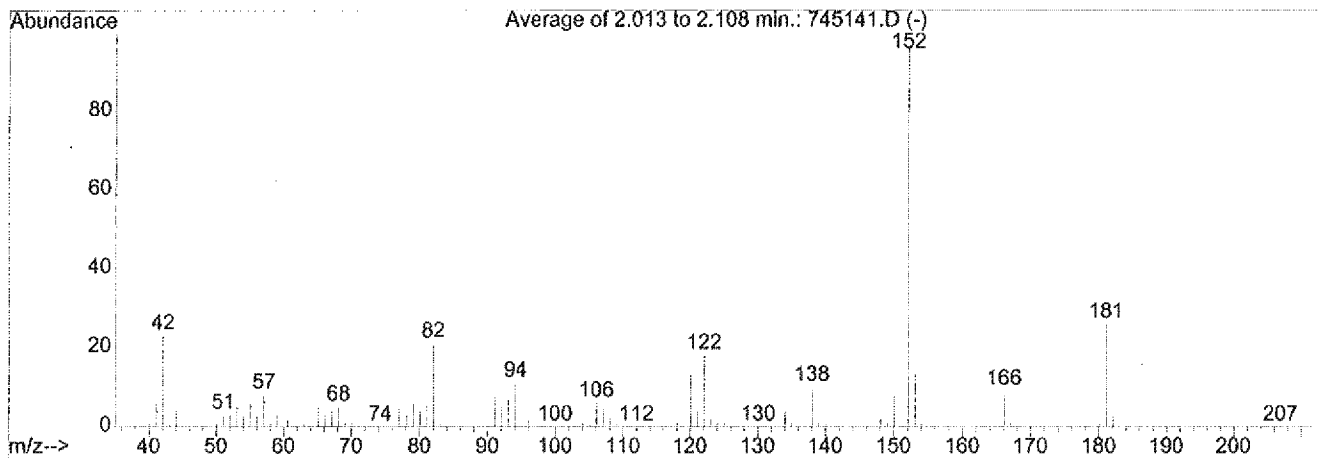
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File Name       : G:\09_24_10\745141.D
Operator        : KAC
Date Acquired   : 25 Sep 2010   00:08
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 41
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|------------------------------------|-------------|------|
| 1 | 2.04 | C:\DATABASE\PMW_TOX2.L | | |
| | | Cocaine-M/artifact -H2O | 000000-00-0 | 96 |
| | | Metipranolol-M/artifact AC | 000000-00-0 | 23 |
| | | MDA-M (desmethylenyl-methyl-) ME @ | 000000-00-0 | 9 |



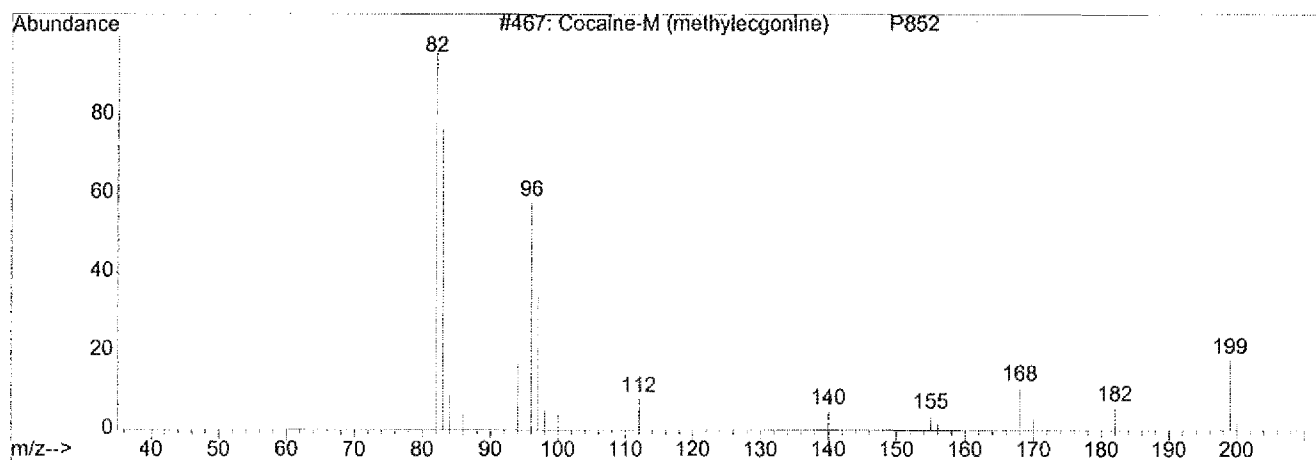
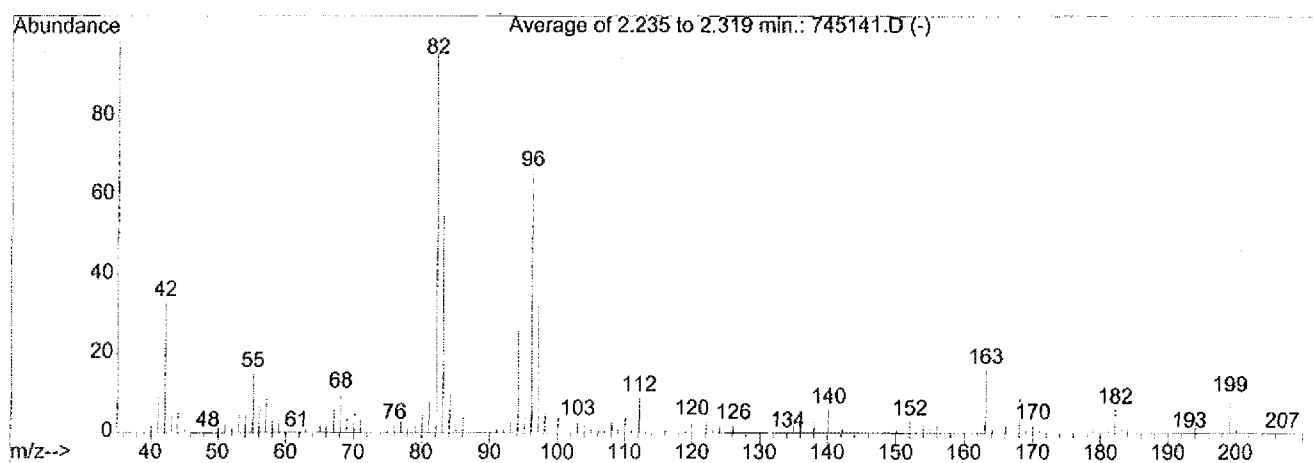
Area Percent / Library Search Report

Information from Data File:

File Name : G:\09_24_10\745141.D
 Operator : KAC
 Date Acquired : 25 Sep 2010 00:08
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 41
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-------------------------------|-------------|------|
| 2 | 2.28 | C:\DATABASE\PMW_TOX2.L | | |
| | | Cocaine-M (methylecgonine) | 007143-09-1 | 95 |
| | | Cocaine-M (methylecgonine) AC | 000000-00-0 | 45 |
| | | Cocaine | 000050-36-2 | 38 |



Area Percent / Library Search Report

Information from Data File:

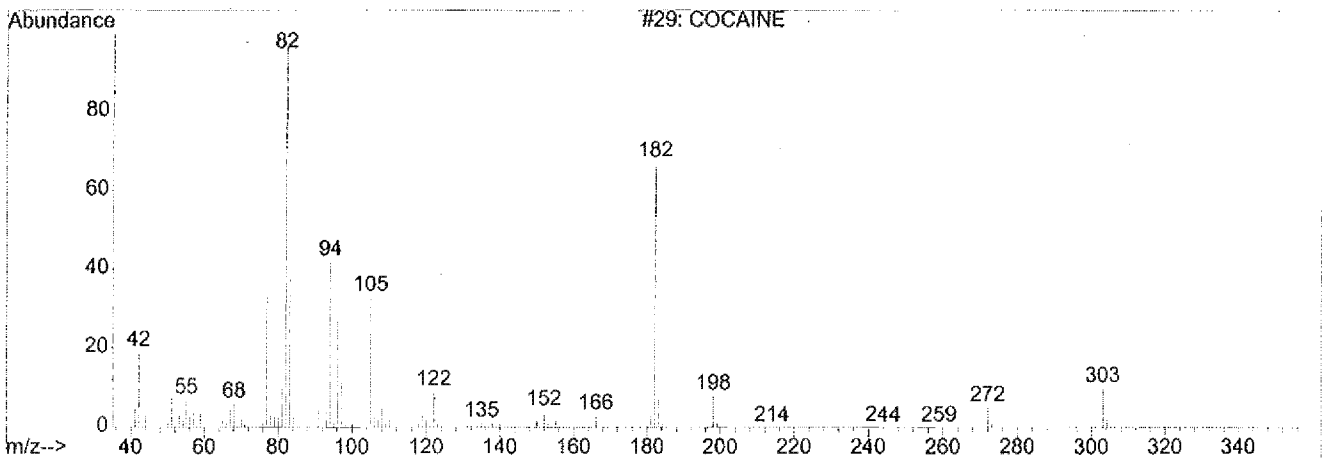
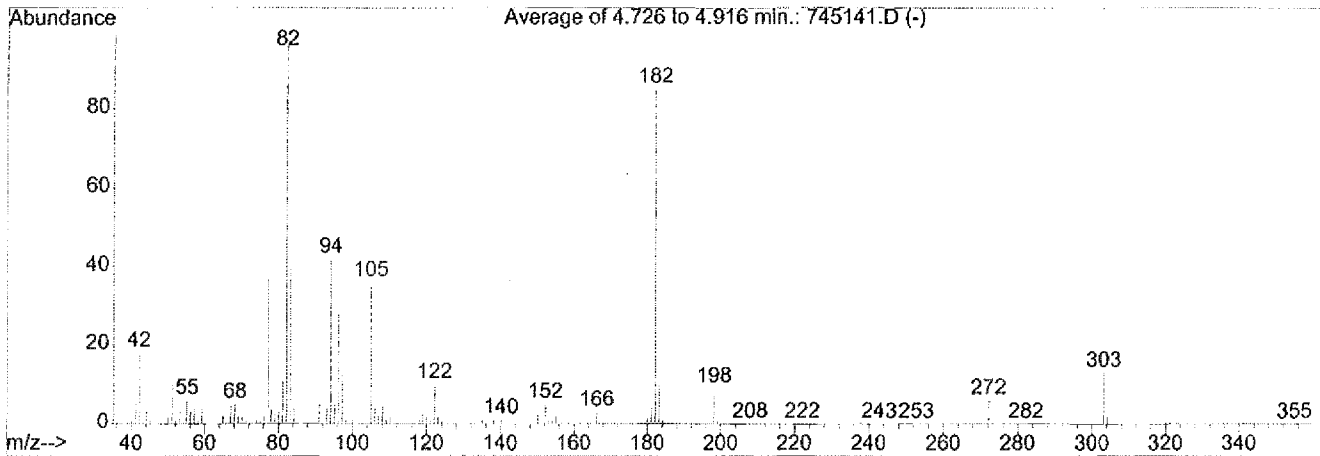
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File Name       : G:\09_24_10\745141.D
Operator        : KAC
Date Acquired   : 25 Sep 2010   00:08
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 41
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

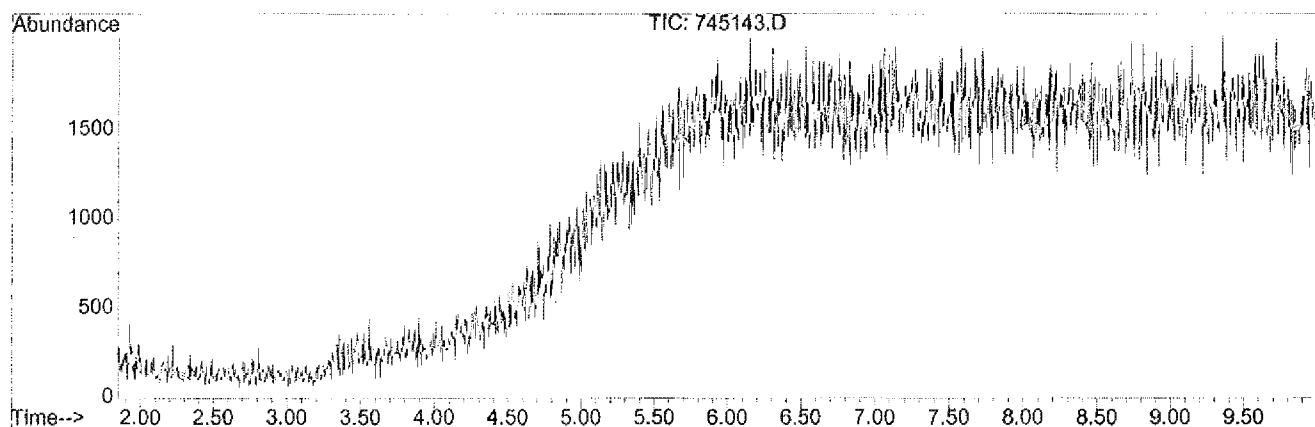
| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|------------------------------|-------------|------|
| 3 | 4.76 | C:\DATABASE\SLI.L COCAINE | 000050-36-2 | 99 |



Area Percent / Library Search Report

Information from Data File:

File Name : G:\09_24_10\745143.D
Operator : KAC
Date Acquired : 25 Sep 2010 00:35
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



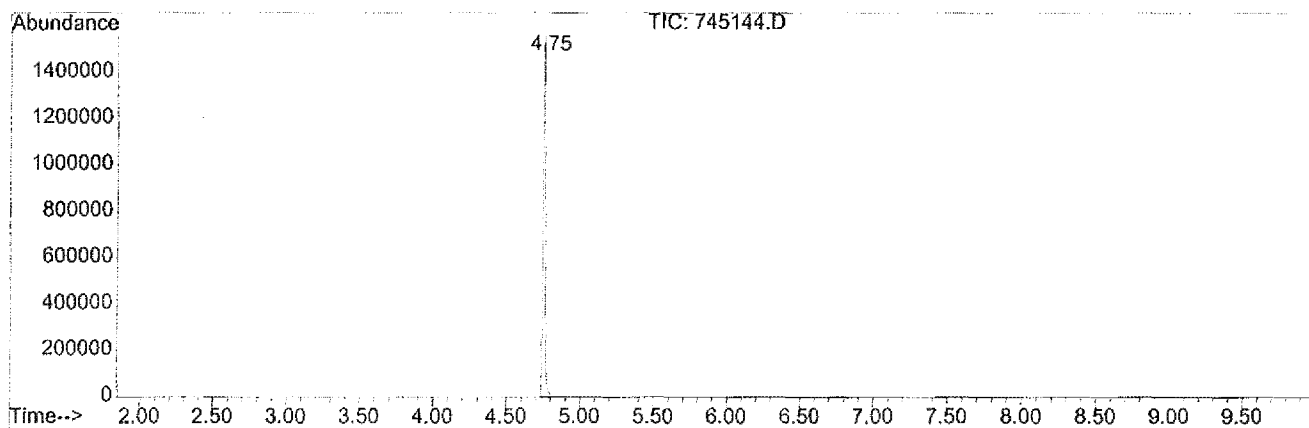
| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : G:\09_24_10\745144.D
 Operator : KAC
 Date Acquired : 25 Sep 2010 00:49
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 44
 AcquisitionMeth: DRUGS
 Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.754 | 1577440 | 100.00 | 100.00 |

Area Percent / Library Search Report

Information from Data File:

```

File Name       : G:\09_24_10\745144.D
Operator        : KAC
Date Acquired   : 25 Sep 2010   00:49
Sample Name     : COCAINE STD
Submitted by    :
Vial Number     : 44
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|------------------------------|-------------|------|
| 1 | 4.75 | C:\DATABASE\SLI.L COCAINE | 000050-36-2 | 99 |

